LISTING OF CLAIMS:

This listing of claims will replace all prior versions and listings of the claims in the application:

1. (Currently Amended) A microstrip antenna comprising:

an insulating substrate;

a plurality of antenna electrodes disposed upon one surface of said substrate, each having

a feed point for application of a radio wave signal;

a ground electrode disposed upon the other side of, or in the interior of, said substrate, for

supplying ground level; and

a connection member that connects at least one antenna electrode among said plurality of

antenna electrodes to said ground electrode, at least at one spot thereof which is different from

said feed point, the connection member connecting fewer than all of being configured such that

at least one antenna electrode among the plurality of antenna electrodes is unconnected to said

ground electrode at once;

wherein said connection member is disposed at a location within a plane region occupied

by said at least one antenna electrode when said at least one antenna electrode is seen in plan

view, such that a direction of an integrated radio wave beam which is emitted from said plurality

of antenna electrodes is inclined from a direction normal to said substrate by connecting said at

least one antenna electrode to said ground electrode at said location.

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2. (Withdrawn) A microstrip antenna as described in Claim 1, characterized in that:

said at least one spot of said at least one antenna electrode which is connected to said

ground electrode is located at a position differing from a position which is separated from said

feed point of said at least one antenna electrode in a direction to its terminal edge by just a

distance which is an odd number of times the quarter wavelength of said high frequency signal.

3. (Withdrawn) A microstrip antenna as described in Claim 1, characterized in that:

said connection member is an electrically conductive through hole which is pierced

through at a spot of said substrate which corresponds to said at least one spot of said at least one

antenna electrode, and has one end which is connected to said at least one spot of said at least

one antenna electrode, and another end which is connected to said ground electrode.

4. (Withdrawn) A microstrip antenna as described in Claim 1 or Claim 2, characterized

in that:

at least one edge of said at least one antenna electrode is disposed along at least one edge

of said substrate; and

said connection member is an electric conductor which is arranged upon a side surface of

said at least one edge of said substrate, and has one end which is connected to said at least one

spot of said at least one edge of said at least one antenna electrode, and another end which is

connected to said ground electrode.

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5. (Previously Amended) A microstrip antenna as described in Claim 1, wherein:

said at least one spot of said at least one antenna electrode which is connected to said

ground electrode is in the vicinity of a terminal edge of said at least one antenna electrode, the

terminal edge being on a side opposite to said feed point.

6. (Previously Amended) A microstrip antenna as described in Claim 1, wherein said

connection member includes a switch which opens and closes the connection between said at

least one antenna electrode and said ground electrode.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Withdrawn) A microstrip antenna as described in Claim 1, further comprising a feed

line for supplying high frequency electrical power to said plurality of antenna electrodes,

wherein said feed line is provided upon the other surface of said substrate, and is

connected to said feed points of said plurality of antenna electrodes through electrically

conductive through holes which are pierced through said substrate.

11. (Withdrawn) A microstrip antenna as described in Claim 1, characterized by further

comprising a feed line for supplying high frequency electrical power to said plurality of antenna

electrodes,

wherein said feed line has a root feed point which is connected to an oscillator circuit and

located at approximately the center of the substrate, and branches off in both mutually opposite

directions from said root feed point, and

wherein the direction of branching off of said feed line from said root feed point, and the

direction of excitation of each of the antenna electrodes, do not agree with one another in one

direction.

12. (Withdrawn) A microstrip antenna as described in Claim 1, characterized in that:

said plurality of antenna electrodes upon the one surface of said substrate are covered by

a dielectric body which has a relative permittivity which is larger than the relative permittivity of

said substrate.

13. (Withdrawn) A microstrip antenna as described in Claim 1, characterized in that:

said at least one antenna electrode is divided into a plurality of stripe electrodes which

extend in a direction from said feed point to a terminal edge.

14. (Canceled)

15. (Canceled)

25. (Canceled)

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26. (Withdrawn) A microstrip antenna comprising:

an insulating substrate;

a plurality of antenna electrodes disposed upon one surface of said substrate, each having a feed point for application of a high frequency signal;

a ground electrode disposed upon the other side of, or in the interior of, said substrate, for

supplying ground level; and

a connection member for electrically coupling said at least one antenna electrode among

said plurality of antenna electrodes to said ground electrode, at least at one spot thereof which is

different from said feed point thereof; and

an impedance variable device which varies the impedance of the electrical coupling

between said at least one antenna electrode and said ground electrode via said connection

member for said high frequency signal.

27. (Withdrawn) A microstrip antenna as described in Claim 26, characterized in that:

said impedance variable device varies said impedance by varying the effective length or

cross sectional area of an electric line between said at least one antenna electrode and said

ground electrode via said connection member.

28. (Withdrawn) A microstrip antenna as described in Claim 26, characterized in that:

said impedance variable device varies the impedance by varying the capacitance between

said at least one antenna electrode and said ground electrode via said connection member.

29. (Withdrawn) A microstrip antenna as described in Claim 26, characterized in that:

said impedance variable device is provided at a spot where said connection member and

said ground electrode are electrically coupled.

30. (Withdrawn) A microstrip antenna as described in Claim 26, characterized in that:

a plurality of electrically conductive through holes which are pierced through said

substrate are provided to said at least one antenna electrode as said connection member;

a plurality of said switches are provided to said plurality of through holes; and

said impedance variable device is arranged to select and turn ON any one of different

combinations of the switches from among said plurality of switches.

31. (Withdrawn) A microstrip antenna as described in Claim 26,

wherein said impedance variable device comprises two electrical contact points which are

respectively connected to said connection member and to said ground electrode, and said two

electrical contact points are arranged to be separated by a first gap in a first state, and to be

separated by a second gap which is larger than said first gap in a second state.

32. (Withdrawn) A microstrip antenna as described in Claim 26,

wherein said impedance variable device comprises two electrical contact points which are

respectively connected to said connection member and to said ground electrode, with the mutual

distance being variable; and an insulating film which is provided between said two electrical

contact points.

33. (Withdrawn) A microstrip antenna comprising:

an insulating substrate;

at least one antenna electrode disposed upon one surface of said substrate, having a feed point for application of a high frequency signal:

a ground electrode disposed upon the other side of, or in the interior of, said substrate, for supplying ground level;

a connection member for electrically coupling said antenna electrode to said ground electrode, at least at one spot thereof which is different from said feed point thereof; and an impedance variable device which varies the impedance of the electrical coupling between said at least one antenna electrode and said ground electrode via said connection member for said high frequency signal.

34. (Withdrawn) A microstrip antenna comprising:

an insulating substrate;

a plurality of antenna electrodes disposed upon one surface of said substrate,

each having a feed point for application of a radio wave signal;

a ground electrode disposed upon the other side of, or in the interior of, said substrate, for supplying ground level; and

a connection member that selectively connects at least one antenna electrode among said plurality of antenna electrodes to said ground electrode in response to one or more control signals, at least at one spot of the connection member being different from said feed point;

wherein said connection member is disposed at a location within a plane region occupied by said at least one antenna electrode when said at least one antenna electrode is seen in plan Appl. No. 10/593,392 Amendment dated 18 January 2011 Reply to Office Action of 18 October 2010

view, such that a direction of an integrated radio wave beam which is emitted from said plurality of antenna electrodes is inclined from a direction normal to said substrate by connecting said at least one antenna electrode to said ground electrode at said location.